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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/757,901	-	01/14/2004	Tadaaki Oikawa	09619/100L114-US1	4763
7278	7590	02/24/2006		EXAMINER	
DARBY &		P.C.	BASHORE, ALAIN L		
P. O. BOX 5			ARTIBUT	DADED MINADED	
NEW YORK	K, NY 10	0150-5257		ART UNIT	PAPER NUMBER
				1762	
			DATE MAILED: 02/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/757,901	OIKAWA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Alain L. Bashore	1762					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of a Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (C) (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on <u>07 D</u>	<u>ecember 2005</u> .						
,	This action is FINAL . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-3</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) acc	epted or b)☐ objected to by the	Examiner.					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct							
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).					
 Certified copies of the priority document 	1. Certified copies of the priority documents have been received.						
<u> </u>	——————————————————————————————————————						
•	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	•						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attachment(s)							
1) M Notice of References Cited (PTO-892) 2) Motice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D						
Notice of Draitsperson's Patent Drawing Review (PTO-940) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over European patent 540,058 (Osawa) in view of Arai et al in further view of Chen and Murayama et al.

Osawa discloses a method for manufacturing a magnetic recording medium comprising laminating a non-magnetic under-layer on a non-magnetic substrate (p 3, line 5-6), laminating a magnetic layer on said under-layer by forming an oxide layer on a surface, depositing a magnetic layer component comprising ferromagnetic grains and grain boundaries surrounding said grains (p 3, lines 6-13). There is subsequently laminated a protective film on said magnetic layer and a liquid lubricant layer on the protective film (p 5, lines 14-16).

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Osawa does not disclose:

exposure to an atmosphere of oxygen-containing gas;

magnetic layers may be repeated multiple times;

ferromagnetic grains and grain boundaries surrounding the grains.

Arai et al discloses exposure to an atmosphere of oxygen-containing gas during the manufacture of a magnetic recording medium (see abstract).

It would have been obvious to one with ordinary skill in the art to include exposure to an atmosphere of oxygen-containing gas during the manufacture of a magnetic recording medium because Arai et al teaches metal oxide films as common (col 1, lines 44-46).

Chen discloses that magnetic layers may be repeated multiple times (fig 1).

It would have been obvious to one with ordinary skill in the art to include magnetic layers that may be repeated multiple times because Chen teaches advantages of such (col 2, lines 15-35).

Murayama et al discloses ferromagnetic grains and grain boundaries surrounding the grains (see abstract).

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It would have been obvious to one with ordinary skill in the art to include ferromagnetic grains and grain boundaries surrounding the grains because Murayama et al teaches controlling grain size for desired characteristics (col 2, lines 23-28).

Response to Arguments

3. Applicant's arguments with respect to claims of record have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alain L. Bashore whose telephone number is 571-272-6739. The examiner can normally be reached on about 7:30 am to 5:00 pm (Mon. thru Thurs.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Alain L. Bashore **Primary Examiner**

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